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|-------|------|---|----------|------------------|---------|------------------|
| L1 | 6 | ("4,608,702" "4,891,808" "5,748,616" "6,208,180" "5,889,304" "6,910,109").pn. | USPAT | OR | ON | 2005/12/05 12:29 |
| L2 | 2 | "20030217223" "20030227798" | US-PGPUB | OR | ON | 2005/12/05 12:30 |
| L3 | 8 | ("5,327,553" "5,706,224" "6,131,149" "6,219,725" "6,286,083" "6,493,803" "6,564,329" "6,665,202").pn. | USPAT | OR | ON | 2005/12/05 12:30 |
| L4 | 2 | "20040044833" "20050044327" | US-PGPUB | OR | ON | 2005/12/05 12:31 |
| L5 | 2 | "20030149809" "20040236885" | US-PGPUB | OR | ON | 2005/12/05 12:33 |
| L6 | 1 | ("6,845,409").pn. | USPAT | OR | ON | 2005/12/05 12:33 |
| L7 | 5 | ("4,953,930" "5,987,196" "6,715,018" "6,811,320" "6,821,029").pn. | USPAT | OR | ON | 2005/12/05 12:34 |
| L8 | 2 | "20040126115" "20040144994" | US-PGPUB | OR | ON | 2005/12/05 12:34 |
| L10 | 25 | ("4,240,143" "4,245,306" "4,253,144" "4,253,146" "4,707,823" "4,724,520" "4,930,128" "5,241,506" "5,243,703" "5,269,022" "5,317,752" "5,319,755" "5,355,391" "5,432,823" "5,461,627" "5,465,229" "5,502,621" "5,566,325" "5,577,220" "5,581,767" "5,606,717" "5,638,334" "5,715,456" "5,819,304" "5,832,250").pn. | USPAT | OR | ON | 2005/12/05 12:34 |
| L11 | 25 | ("5,928,343" "5,966,724" "5,973,935" "5,973,951" "5,978,567" "6,023,726" "6,029,250" "6,031,241" "6,061,296" "6,076,139" "6,098,158" "6,125,431" "6,134,624" "6,175,571" "6,185,352" "6,191,663" "6,247,107" "6,249,802" "6,294,937" "6,370,068" "6,401,213" "6,405,280" "6,430,696" "6,434,696" "6,434,736").pn. | USPAT | OR | ON | 2005/12/05 12:36 |
| L12 | 25 | ("6,438,622" "6,449,308" "6,453,393" "6,479,322" "6,490,188" "6,501,471" "6,594,722" "6,598,154" "6,615,325" "6,628,294" "6,629,220" "6,646,929" "6,658,509" "6,662,304" "6,667,895" "6,697,926" "6,718,440" "6,721,195" "6,724,685" "6,728,800" "6,735,679" "6,735,682" "6,745,275" "6,751,703" "6,754,812").pn. | USPAT | OR | ON | 2005/12/05 12:38 |
| L14 | 4 | ("6,756,661" "6,760,833" "6,771,538" "6,775,747").pn. | USPAT | OR | ON | 2005/12/05 12:42 |
| L15 | 12 | (6 "789,173" "6,792,059" "6,792,496" "6,795,899" "6,799,246" "6,799,268" "6,804,760" "6,804,764" "6,807,630" "6,816,947" "6,820,181" "6,823,023").pn. | USPAT | OR | ON | 2005/12/05 12:43 |

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|-----|----|---|----------|----|----|------------------|
| L17 | 7 | "20010039612" "20020116588" "20030043158" "20030093630" "20030163649" "20030177320" "20050071542" | US-PGPUB | OR | ON | 2005/12/05 12:46 |
| L20 | 24 | ("4,707,823" "5,241,506" "5,243, 703" "5,319,755" "5,355,391" "5, 432,823" "5,465,229" "5,502,621" "5,566,325" "5,581,767" "5,606,717" "5,638,334" "5,819,304" "5,928,343" "5,973,935" "5,973,951" "6,029,250" "6,061,296" "6,125,431" "6,175,571" "6,185,352" "6,247,107" "6,294,937" "6,370,068").pn. | USPAT | OR | ON | 2005/12/05 12:46 |
| L21 | 20 | ("6,401,213" "6,430,696" "6,434, 736" "6,479,322" "6,490,188" "6, 629,220" "6,646,929" "6,662,304" "6,667,895" "6,721,195" "6,724,685" "6,735,679" "6,745,275" "6,751,703" "6,756,661" "6,771,538" "6,792,059" "6,799,246" "6,804,764" "6,816, 947").pn. | USPAT | OR | ON | 2005/12/05 12:47 |
| L22 | 4 | "20030043158" "20030093630" "20030163649" "20030177320" | US-PGPUB | OR | ON | 2005/12/05 12:49 |
| L24 | 2 | "20030193927" "20040022094" | US-PGPUB | OR | ON | 2005/12/05 12:49 |
| L25 | 8 | ("4,045,781" "5,479,370" "5,729, 709" "5,875,454" "6,186,400" "6, 243,831" "6,256,692" "6,438,668"). pn. | USPAT | OR | ON | 2005/12/05 12:49 |
| L26 | 7 | ("5,544,319" "5,822,255" "6,033, 951" "6,079,008" "6,392,653" "6, 636,110" "6,681,292").pn. | USPAT | OR | ON | 2005/12/05 12:49 |
| L27 | 1 | "6462978".pn. | USPAT | OR | ON | 2005/12/05 12:50 |
| L29 | 10 | ("5,818,844" "6,067,262" "6,246, 618" "6,272,609" "6,477,592" "6, 523,092" "6,523,093" "6,590,816" "6,622,227" "6,631,440").pn. | USPAT | OR | ON | 2005/12/05 12:50 |
| L30 | 4 | "20020144064" "20030005223" "20030043426" "20030229770" | US-PGPUB | OR | ON | 2005/12/05 12:52 |
| L31 | 24 | ("5,251,303" "5,432,907" "5,442, 770" "5,497,476" "5,659,798" "5, 875,352" "6,061,263" "6,073,190" "6,105,075" "6,137,709" "6,144,587" "6,167,465" "6,167,486" "6,201,724" "6,233,376" "6,243,769" "6,285,349" "6,301,637" "6,327,642" "6,330,205" "6,347,055" "6,349,363" "6,356,573" "6,367,074").pn. | USPAT | OR | ON | 2005/12/05 12:52 |

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|-----|-------|---|---|----|----|------------------|
| L32 | 15 | ("6,373,777" "6,381,190" "6,421,744" "6,434,639" "6,463,059" "6,470,422" "6,473,828" "6,477,614" "6,477,621" "6,496,909" "6,505,287" "6,539,490" "6,552,564" "6,587,912" "6,594,713").pn. | USPAT | OR | ON | 2005/12/05 12:55 |
| L33 | 1 | "20020112119" | US-PGPUB | OR | ON | 2005/12/05 12:20 |
| L37 | 6 | "0849685" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 13:32 |
| L38 | 15040 | micron.as. | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:32 |
| L39 | 23778 | hub.ab. | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:33 |
| L40 | 9 | 38 and 39 | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:34 |
| L41 | 494 | (buffer or queue) same (mux or multiplexer) and 38 | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:35 |
| L42 | 130 | (buffer or queue) same (mux or multiplexer) same hub | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:36 |
| L43 | 0 | 42 and 38 | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:36 |
| L44 | 2465 | (buffer or queue) and (mux or multiplexer) and hub | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:37 |
| L45 | 7 | 44 and 38 | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:36 |
| L46 | 11 | (buffer or queue) and (mux or multiplexer) and hub-base\$1 | US-PGPUB; USPAT | OR | ON | 2005/12/05 13:41 |
| L47 | 1079 | (hub or hub-based) and (mux or multiplex\$3) and (queue or buffer) and (bypass\$3 or bi-pass\$3 or bypass\$3 or by-pass\$3) | US-PGPUB; USPAT | OR | ON | 2005/12/05 14:18 |
| L49 | 3 | ((memory adj3 hub) or memory-hub) same (mux or multiplex\$3) same (queue or buffer) same (bypass\$3 or bi-pass\$3 or bypass\$3 or by-pass\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 13:49 |
| L50 | 30 | ((memory adj3 hub) or memory-hub) and (mux or multiplex\$3) and (queue or buffer) same (bypass\$3 or bi-pass\$3 or bypass\$3 or by-pass\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:08 |

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|-----|---|---------------|---|----|----|------------------|
| L51 | 0 | 2005/0044304 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:09 |
| L52 | 2 | "20050044304" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:10 |
| L53 | 2 | "20040034753" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:12 |
| L54 | 8 | "6523093" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:11 |
| L55 | 2 | "6523093".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:11 |
| L56 | 2 | "6754812" | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:12 |
| L57 | 2 | "4045781".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:13 |
| L58 | 2 | "5479370".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:14 |

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|-----|-------|---|---|-----|----|------------------|
| L59 | 2 | "5729709".pn. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:14 |
| L60 | 1034 | 711/158 | US-PGPUB; USPAT | ADJ | ON | 2005/12/05 14:18 |
| L61 | 4 | (hub or hub-based) and (mux or multiplex\$3) and (queue or buffer) and (bypass\$3 or bi-pass\$3 or bypass\$3 or by-pass\$3) and 711/158.ccls. | US-PGPUB; USPAT | OR | ON | 2005/12/05 14:19 |
| L62 | 2 | (hub or hub-based) and (mux or multiplex\$3) and (queue or buffer) and (bypass\$3 or bi-pass\$3 or bypass\$3 or by-pass\$3) and 711/163.ccls. | US-PGPUB; USPAT | OR | ON | 2005/12/05 14:40 |
| L63 | 37 | (memory adj3 (hub or hub-based)) and (mux or multiplex\$3) and (queue or buffer or store) same (bypass\$3 or bi-pass\$3 or bypass\$3 or by-pass\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:42 |
| L64 | 7 | 63 not 50 | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | OR | ON | 2005/12/05 14:42 |
| L65 | 30364 | micron.as. | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 16:06 |
| L66 | 3 | micron.as. and (b?pass\$3 or b?-pass\$3) and hub | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 16:08 |
| L67 | 3 | micron.as. and (b?pass\$3 or b?-pass\$3) and (hub or hub-based) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 16:08 |

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|-----|-----|---|---|-----|----|------------------|
| L68 | 34 | micron.as. and (hub or hub-based) and (queue or store or buffer or cache) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 16:11 |
| L69 | 257 | (queue or store or buffer or cache) same (hub or hub-based) same (mux or multiplex\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 16:15 |
| L70 | 38 | (queue or store or buffer or cache) same (memory near4 (hub or hub-based)) same (mux or multiplex\$3) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 16:15 |
| L71 | 31 | (memory near2 hub near2 controller) same (module) same (high near2 speed) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 17:37 |
| L72 | 66 | (memory near2 hub near2 controller) with (module) | US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB | ADJ | ON | 2005/12/05 17:37 |